MECHANICAL ANALYSIS OF EXTRACTED AGGREGATE AASHTO T 30 (IGNITION OVEN SAMPLES)

APPARATUS

- [ ] Nest of Sieves
  - [ ] No. 10 or No. 16 upper sieve
  - [ ] No. 200 lower sieve
- [ ] Oven maintained at 230 ± 9°F
- [ ] Electric or gas hot plate

PROCEDURE

- [ ] Sample consists of all aggregate after ignition oven test (This is the original dry sample weight)
- [ ] Wash water poured over basket assembly and through proper nest of two sieves (If sample is removed from the basket assembly and placed in a container, the sample should be covered with water)
- [ ] Washing continued until wash water is clear
- [ ] Washed material coarser than No. 200 sieve and the material in the basket assembly or container dried to constant weight at 230 ± 9 °F or by hot plate
- [ ] Sample weighed to nearest 0.1 percent (This is the total washed dry weight)
- [ ] Sample sieved for ten minutes
- [ ] Aggregate on each sieve weighed to 0.1% of total original dry sample weight
- [ ] Weight of aggregate on each sieve not greater than weight indicated in Table 1

[ ] The difference between the total washed dry weight and the sum of all the fractional weights retained (including the material in the pan) is equal to or less than 0.2 percent

$$\frac{\text{Total Washed Dry Weight - Summation Weights Measured}}{\text{Total Washed Dry Weight}} \times 100 \leq 0.2\%$$

[ ] Percent passing each sieve is calculated to nearest 0.1% based on original dry sample weight

NA - Not Applicable
X - Requires Corrective Action
√ - Satisfactory

_____
Acceptance Technician

_____ _____
INDOT Date

Comments _____

_____

_____

TABLE 1
APPROXIMATED SIEVE OVERLOAD

SCREEN SIZE	STANDARD 372 mm x 580 mm (15" x 23")	STANDARD 350 mm x 350 mm (14" x 14")	304.8 mm (12") DIAMETER	203.2 mm (8") DIAMETER
75 mm (3")	40.5 kg	23.0 kg	12.6 kg	----------
50 mm (2")	27.0 kg	15.3 kg	8.4 kg	3.6 kg
37.5 mm (1-1/2")	20.2 kg	11.5 kg	6.3 kg	2.7 kg
25 mm (1")	13.5 kg	7.7 kg	4.2 kg	1.8 kg
19 mm (3/4")	10.2 kg	5.8 kg	3.2 kg	1.4 kg
12.5 mm (1/2")	6.7 kg	3.8 kg	2.1 kg	890 g
9.5 mm (3/8")	5.1 kg	2.9 kg	1.6 kg	670 g
4.75 mm (#4)	2.6 kg	1.5 kg	800 g	330 g

203.2 mm (8") diameter sieves, 2.36 mm to 75 μm (#8 to #200) shall not exceed 200g / sieve

304.8 mm (12") diameter sieves, 2.36 mm to 75 μm (#8 to #200) shall not exceed 469g / sieve